B. Pharm(Ayu.) Third Year Examination: November - 2016

Pharmaceutica	l Analy	sis of A	yurvedic	Drugs -	H
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Date: 05-12-2016 Monday		•	Time: 09:30 A.M. to 12:30 P.M. Marks: 100	Л.
In		. Every question is compulsory. 2. Every question bears the marks written on	the right side.	
		SECTION-A		
1.	Discuss dete	ectors in gas chromatography with diagram.		10
2.	A. Discus B. Explain	y one out of two questions. ss instrumentation of layer chromatography in the principle of column chromatography. I ation methods in detail. Write down its appl	Describe the various column	10
3.	A. TypesB. ExplainC. ApplicD. Descrit	Four out of five questions: of injectors in H.P.L.C. n elution techniques in column chromatogra cations of T.L.C. in details. be chromatogram development techniques in n types of chambers and chamber saturation	n paper chromatography.	20
4.	Answer any	y Five out of six questions:		10
	B. DerivaC. TypesD. EnumeE. Define	column. atization. of paper in paper chromatography. erate different types of visualization technique chromatograph. erate detectors used in H.P.L.C.	ues in T.L.C.	
		SECTION-B		
5.	Explain flai	me photometry? Its instrumentation in detail	1.	10
6.	A. What i B. What i	one out of two questions: is E.M.R.? Explain instrumentation of U.V. is pH? Enumerate different types of electrocits applications.		10
7.	Answer any	y Four out of five questions:		20
	B. ExplaiC. ApplicD. Applic	ent types of vibrations in I.R. spectroscopy. in DSC in brief. cations of fluorimetry and phosphorimetry. cations of U.V. spectroscopy. s refrectometer.		
8.	Answer any A. H.C.L.	y Five of six questions:		10

Blue Shift.

Wavelength.

Frequency.

P.M.T.

C.

D.

E.

F.

Enumerate sources of I.R. radiation.

B. Pharm(Ayu.) Third Year Examination: November - 2016

Rasashastra & Bhaishajya Kalpana – III (Ayurvedic Pharmaceutics)

Date: 03-12-2016

Saturday

Time: 09:30 A.M. to 12:30 P.M.

Marks: 100

In	nstructions: 1. Every question is compulsory. 2. Every question bears the marks written on the right side.	
	SECTION-A	
1.	What is Sneha Murchchhana? Write Ghrita Murchchhana.	10
2.	Answer any one out of two questions.A. Write ingredients, duration, Snehapaka Vidhi and indications of Jatyadi Ghrita.B. Give detailed description of Tila Taila Murchchhana.	10
3.	Write a short note on any Four of the following:	20
	 A. Saptamushti Yusha. B. Difference between Vilepi and Yavagu. C. Sneha Paka Kala. D. Apamarga Kshara Taila. E. Gulaba Arka and Gulaba Jala. 	
4.	Answer any Five of the following:	10
	 A. Dose and shelf life of Arka. B. Indications and dose of Pinda Taila. C. Types of Takra and its uses. D. Advantage of Lavana Kalpana. E. Sneha Yoni. F. Use of Sneha Paka. 	
	SECTION-B	
5.	Write short note on Uparasa.	10
6.	Answer any one out of two questions. A. Give detailed description of Gandhaka Druti. B. Write short note Upavisha.	10
7.	Write a short note on any Four of the following:	20
	 A. Rasasindura. B. Kasisa Bhasma. C. Vatsanabha Shodhana. D. Sadharana Rasa. E. Role of Parada Murchchhana. 	
8.	Answer any Five of the following:	10
	 A. Dose and antidote of Haritala. B. Synonyms and types of Gauripashana. C. Dose and indications of Rasagarbha Pottali. D. Antidote and formulations of Kupilu. E. Shodhana and dose of Rasanjana. F. Toxicity and antidote of Gauripashana. 	·

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Pharmaceutical Engineering

Date: 02-12-2016

	te: 02-12-2016 Time: 09:30 A.M. to 12:30 P day Marks: 100	Time: 09:30 A.M. to 12:30 P.M. Marks: 100	
In	structions: 1. Every question is compulsory. 2. Every question bears the marks written on the right side.		
	SECTION-A		
1.	Explain objectives and discuss various mechanism used for achieving size separation.	10	
2.	 Answer any one out of two questions. A. Discuss objectives, factor affecting and explain colloid mill. B. Define extraction. Explain factors affecting and application of extraction in pharmacy. 	10	
3.	Write a short note on any Four of the following:	20	
	A. Fluid energy mill. B. Sieving method.		
	C. Sigma blade mixer.	٠	
	D. Homogenizer.E. Theory of extraction.		
4.	Answer any Five of the following:	10	
	A. Preparation method of Vasaka liquid extract IP.		
	B. Define leaching.C. What is size reduction?		
	D. Standards for sieve.		
	E. What is emulsifier?F. Uses of triple roller mill.		
•	SECTION-B		
5.	What is Mier's theory of super saturation? Discuss its limitation.	10	
6.	Answer any one out of two questions.A. Define evaporation. Discuss factors affecting the process of evaporation.B. Define drying discuss their importance in the pharmacy field.	10	
7.	Write a short note on any Four of the following:	20	
	A. Discuss theory of distillation.B. Vacuum dryer.		
	C. Circulating magma crystallizer.		
	D. Multiple effect evaporate.		
	E. Equilibrium distillation.		
8.	Answer any Five of the following:	10	
	A. Uses of crystallization in pharmacy field.B. Principle of microwave.		
	C. Advantages of wiped film.		
	D. Principle of azotropic distillation.		
	E. Draw a neat diagram of drum dryer.F. Define crystals.		

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${\bf Pharmacognosy\ of\ Ayurvedic\ Drugs-II}$

Date: 01-12-2016

Time: 09:30 A.M. to 12:30 P.M.

Thu	rsday Marks: 100	
Ins	structions: 1. Every question is compulsory. 2. Every question bears the marks written on the right side.	
	SECTION-A	
	Give detail account on pharmacognostical and phytochemical evaluation of group as per API.	10
	 Answer any one out of two questions. A. What is cyanogenic glycoside? Write a detail account on that and give detail description of plants belonging to that group. B. Describe the importance of marine drugs. 	10
	 Write a short note on any Four of the following: A. Differentiate Brahmi and Mandukaparni. B. Various types of Aloes. C. Froth Index. D. Differentiate Chhota and Bada Gokshura. E. Explain enzymatic hydrolysis is recommended in cases of cyanogenic glycosides. 	20
	Answer any Five of the following: A. Name cardio vascular agents from marine source.	10
	 B. What is bitter evaluation? C. Give biological sources, chemical constituents and uses of Chakramarda. D. Give biological sources, chemical constituents and uses of Kirattikta. E. Enumerate any two drugs with biological source of anthraquinones and flavonoids. F. Define adulterants. 	
	SECTION-B	
5.	What is lipid? Give purification and refining process of fixed oil in detail.	10
	 Answer any one out of two questions. A. How formation and distribution takes place of alkaloids in plants? Discuss in detail and write a note on aconites. B. Classify and describe chemical tests of tannins and give a note on at least two bark drugs containing them. 	10
7.	Write a short note on any Four of the following:	20
	 A. Gold beater's test. Skin test. B. Explain why Gambir is pale brown, while cutch is black in colour. C. Kernel oil of Nimba. D. The adulterants of Madhuchchhitsa and its identification tests. E. Ahiphena. 	
8.	Answer any Five of the following:	10
	 A. What is green pepper? B. Name at least two market patent formulations containing Aswagandha. C. Give botanical name and family of adulterant of Ashoka. D. What is Rasavarta? E. Give biological source, chemical constituents and uses of Jyotismati. 	
	F. Give biological source, chemical constituents and uses of Arkapatri.	

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Pharmaceutical Technology of Ayurvedic Drugs -I

Date: 29-11-2016

Time: 09:30 A.M. to 12:30 P.M.

T	uesday Marks: 100	
Ir	nstructions: 1. Every question is compulsory. 2. Every question bears the marks written on the right side.	
	SECTION-A	
1.	What are granules? Give advantages and disadvantages of granules over powder.	10
2.	Answer any one out of two questions.A. What are additives? Give its classification with suitable examples.B. What are aromatic waters? Give its general method of preparation and its packaging.	10
3.	 Write a short note on any Four of the following: A. Evaluation of ophthalmic products. B. Granules. C. Syrups and elixirs. D. Ophthalmic dosage forms. E. Problems encountered during preparation of powders. 	20
4.	Answer any Five out of six questions: A. What are anti-oxidants. B. Name four natural colours with source. C. Enumerate preservatives used in internal formulations. D. Define tincture. E. What are colloid ions? F. Define H.L.B. value.	10
	SECTION-B	
5.	What are suppositories? Enumerate the ideal characteristics of suppository bases. What are its evaluation techniques?	10
6.	Write any one out of two questions:A. What are aerosols? Give its manufacturing procedure with each part.B. What are cosmetics? How will you prepare an Ayurvedic lipstick?	10
7.	 Write a short note on any Four of the following: A. Vanishing cream. B. Ointment bases in brief. C. Polymorphism. D. Formulation and preparation of dentrifrices. E. Shaving preparations. 	20
8.	Answer any Five of six questions: A. Applications of aerosols. B. Define Bougies. C. Poultice. D. Use of talcum powder. E. Difference between a cream and an ointment. F. Enumerate propellants.	10

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Dravyaguna – II (Ayurvedic Pharmacology)

Date: 28-11-2016 Monday		Time: 09:30 A.M. to 12:30 P.M. Marks: 100	
. In	nstructions: 1. Every question is compulsory. 2. Every question bears the marks written	on the right side.	
	SECTION-A		
1.	Write about the basis of nomenclature and synonyms	s of Dravya.	0
2.	Answer any one out of two questions.	- : - : - : - : - : - : - : - : - : - :	0
. —·	A. Write about author, period and classification ofB. Describe in detail the Aharopayogi Varga and it	Raja Nighantu.	. 0
3.	Write a short note on any Four of the following:	2	20
	A. Vichitrapratyarabdha.B. Bhavaprakasha Nighantu.C. Jala Varga.D. Krutanna Varga.E. Ghruta Varga.		-
4.	Answer any Five of the following:	1	0
ż	A. Vidahi.		
	B. Vedana Sthapana.C. Swasahara.		
	D. Mutra Virajaniya.		* .
	E. Vranashodhana.		
	F. Snehopaga.		
٠	SECTION-B		
5.		unchaka' with its therapeutic 1	0
•	importance.		
6.	Answer any one out of two questions.	1	0
	A. Write the basonym, synonyms, botanical		
	pharmacological activity and therapeutic use of B. Write the ingredients and collective action of		
	B. Write the ingredients and collective action of action.	ranchavaikaia with mode of	
7.			Δ.
7.	A. Madhuratraya.		0.
-	B. Ksharastaka.		
	C. Saptopavisha.		
	D. Yamaka.		
	E. Taisharkara.		
8.	Answer any Five of the following:		Ó
٠	A. Mishreya.		_
*	B. Shinshapa.		
	C. Trayamana.		
	D. Nimbu.		
	E. Kapittha.		
	F Δyartaki	*	